

(07/11/90)

ER DEPARTMENT DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. 9006L596 Site Solar Ponds
Laboratory Roy F. Weston - Lionville No. of Samples/Matrix 2/Water
SOW # 10/86 (Rev. 2/88) Reviewer Org. TechLaw, Inc.
Sample Numbers SW095W053090AAA, SW095W053090TAA

Data Assessment Summary

	VOA	Comments
1. Holding Times	<u>V</u>	
2. GC/MS Tune/Instr. Perf.	<u>V</u>	
3. Calibrations	<u>A</u>	<u>Action Items 1.2; Comments 1.2</u>
4. Blanks	<u>A</u>	<u>Action Item 3</u>
5. Surrogates	<u>V</u>	
6. Matrix Spike/Dup.	<u>V</u>	
7. Other QC	<u>X</u>	<u>Comments 3.4</u>
8. Internal Standards	<u>V</u>	
9. Compound Identification	<u>V</u>	
10. System Performance	<u>V</u>	
11. Overall Assessment	<u>A</u>	<u>Data acceptable with qualifications.</u>

V = Data had no problems.

A = Data acceptable but qualified due to problems.

R = Data rejected.

X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable.
qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged.
(Refer to attached Data Summary Tables.)

REVIEWED FOR CLASSIFICATION/UCRL

By [Signature]

Date 10/18/91

Action Items: 1) In the initial calibration on 5/30/90, Trichloroethene's and Acetone's %RSD exceeded 30%. Therefore the positive result for Trichloroethene in sample SW095W053090AAA is estimated (J). The positive result for Acetone in this sample would be estimated (J) if not for blank contamination. See Action Item 3.

2) Due to a large interfering peak, it appears that manual quantitation of Chloromethane, Vinyl Chloride, Bromomethane, and Chloroethane in all calibration standards was performed. However, on the quantitation report submitted for the 150 ppb standard in the initial calibration the raw data RRF values did not agree with the RRFs on Form 6A. Apparently, the RRFs on Form 6A were manually quantitated, and the raw data was for the unmanipulated values. Consequently, the calibrations of these compounds are questionable and, therefore, all non-detected results for them are estimated and undetected (UJ) in all samples.

3) As a result of method blank contamination, the positive Acetone result in sample SW095W053090AAA and the positive Methylene Chloride results in both samples are estimated and undetected (UJ) according to the Functional Guidelines 10x rule.

Comments: 1) In the initial and continuing calibrations, several compounds %RSDs or %Ds exceeded criteria. No action is necessary because there were no positive results for these compounds.

2) It appears that Acetone was manually quantitated in the 150 ppb standard of the initial calibration because the RRF calculated from the raw data does not match the RRF for Acetone on Form 6A. Furthermore, Acetone was manually quantitated in the 200 ppb standard and in the continuing calibration. Although the reported RRF was not reproducible, no action is taken because the RRF on Form 6A is assumed to be correct.

3) Various parts of the batch were illegible due to poor copying quality.

4) The Chain-of-Custody (COC) reported that VOA samples were leaking upon arrival; however, because of poor copying quality on the COC, it is undeterminable which sample was affected.

Note: Data Summary Tables are attached.

William T Fee
Reviewer Signature

7/17/90
Date

Custody Transfer Record/Lab Work Request

[illegible]

ER DEPARTMENT DATA ASSESSMENT
SUMMARY REPORT FORM

Batch No. 9006L596 Site Area 6 - Solar Ponds
Laboratory Roy F. Weston - Lionville No. of Samples/Matrix 2/Water
SOW # 7/87 Reviewer Org. TechLaw, Inc.
Sample Numbers SW095W053090AAA (total and soluble)

Data Assessment Summary

	ICP	AA	Hg	CN	Comments
1. Holding Times	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	
2. Calibrations	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	
3. Blanks	<u>A</u>	<u>A</u>	<u>V</u>	<u>V</u>	Action Items 1-3
4. ICP Interference Check Sample	<u>V</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	
5. Lab Control Sample Results	<u>A</u>	<u>V</u>	<u>V</u>	<u>V</u>	Action Item 8
6. Duplicate Sample Results	<u>A</u>	<u>A</u>	<u>V</u>	<u>V</u>	Action Item 6
7. Matrix Spike Sample Results	<u>A</u>	<u>A</u>	<u>V</u>	<u>V</u>	Action Items 4-5
8. Method of Standard Addition	<u>N/A</u>	<u>V</u>	<u>N/A</u>	<u>N/A</u>	
9. Serial Dilution	<u>A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	Action Item 7
10. Sample Verification	<u>V</u>	<u>X</u>	<u>V</u>	<u>V</u>	Comment 1
11. Other QC	<u>V</u>	<u>V</u>	<u>V</u>	<u>V</u>	
12. Overall Assessment	<u>A</u>	<u>A</u>	<u>V</u>	<u>V</u>	Data valid, or acceptable with qualifications

V = Data had no problems.

A = Data acceptable but qualified due to problems.

R = Data rejected.

X = Problems, but do not affect data.

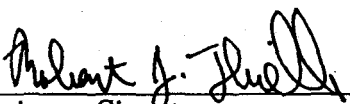
N/A = Not applicable.

Data Quality: Data contained in this batch were reviewed and found to be valid, or acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged.
(Refer to attached Results Summary Tables).

- Action Items:** 1) All Chromium, Copper, Manganese, Vanadium, and Nickel values are estimated and undetected (UJ) because analyte values >IDL were found in the blanks.
- 2) The Cobalt, Zinc, and Selenium values for SW095W053090AA (soluble) are estimated and undetected (UJ) because analyte values >IDL were found in the blanks.
- 3) All Lithium values are estimated (J) because the pre-digestion matrix spike recovery criteria were not met.
- 4) All Arsenic non-detects are estimated and undetected (UJ) because the post-digestion matrix spike recovery criteria were not met.
- 5) All Thallium and Silver non-detects are estimated and undetected (UJ) because the pre-digestion matrix spike recovery criteria were not met.
- 6) The Zinc and Selenium values for SW095W053090AAA (total) are estimated (J) because the duplicate precision criteria were not met.
- 7) All Magnesium values are estimated (J) because the ICP serial dilution recovery criteria were not met.
- 8) All Strontium values are estimated (J) because the laboratory control sample recovery criteria were not met.

Comments: 1) The Cesium IDL was greater than the CRDL.

Note: Data Summary Tables are attached.


Reviewer Signature

9/26/90
Date

for

BATCH NO.

- The following ICP elements were run on an alternate date:

008L598M/eg251

